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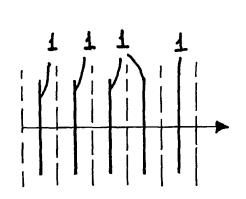
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
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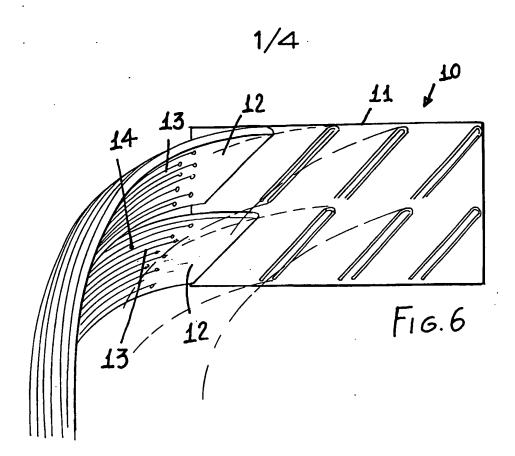
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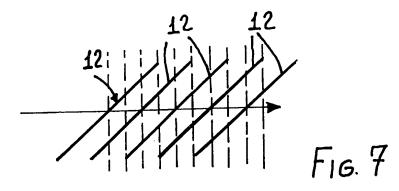
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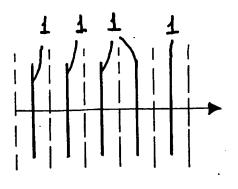
(54) Title: WASHING BRUSH FOR AUTOMATIC MOTOR VEHICLE WASHING SYSTEMS



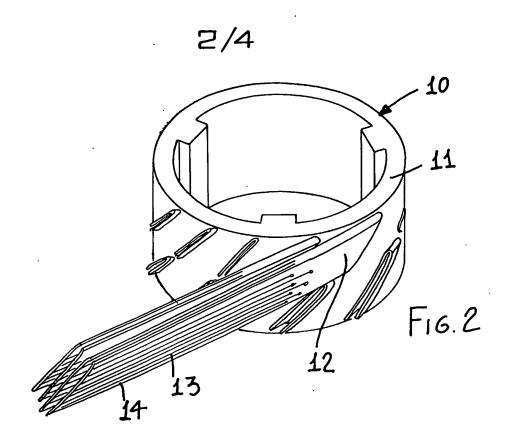
(57) Abstract: The present invention relates to a washing brush for automatic motor vehicle washing systems, comprising a cylindric body on the side outer surface thereof are provided a plurality of bands defining the cleaning elements of the brush. The main feature of the invention is that the band or strip elements extend on the side surface of the cylindric body along direction which are inclined with respect to the axial direction.

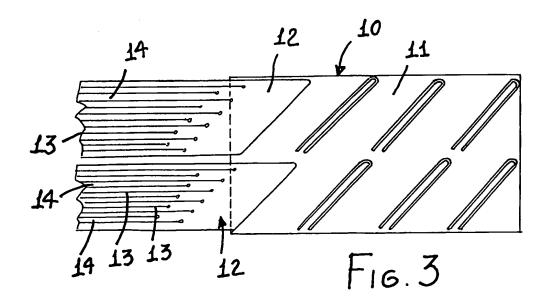


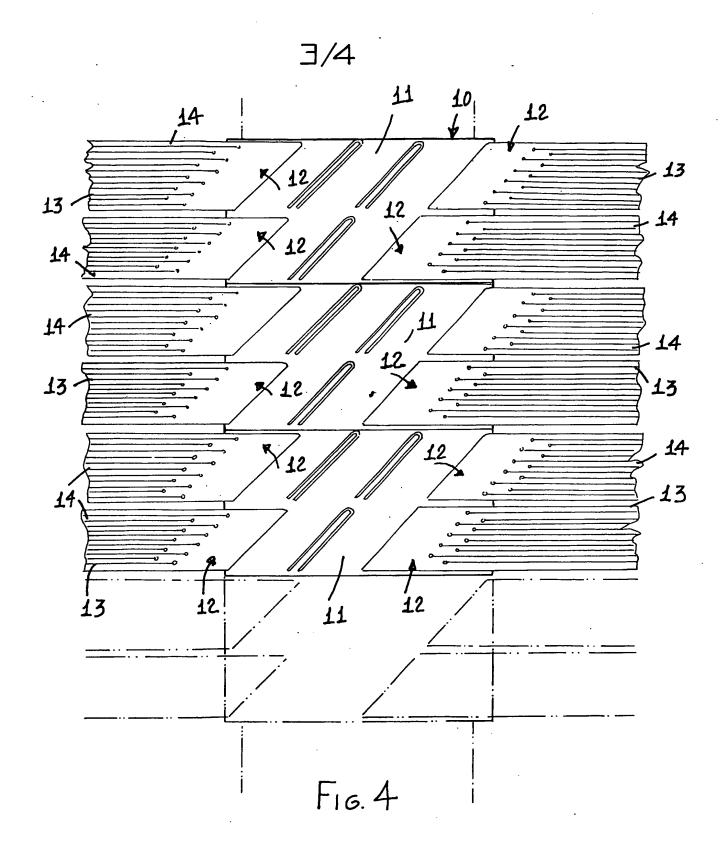


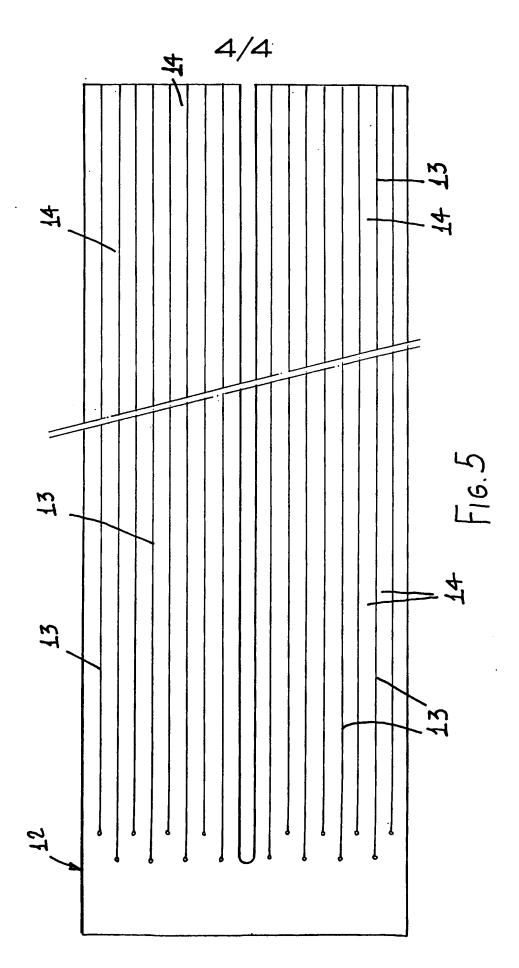


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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60S3/06

According to international Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-860S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

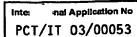
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 3 139 641 A (PARSEGHIAN GERARD A ET AL) 7 July 1964 (1964-07-07)	1-5,7
Υ	column 4, line 42 - column 5, line 23; figures 5,13	6
Y	DE 201 14 359 U (WASH TEC HOLDING GMBH) 24 January 2002 (2002-01-24) abstract; figures	6
A	US 3 241 172 A (TILGNER RALPH F) 22 March 1966 (1966-03-22) the whole document	1-7
A	US 3 439 373 A (CLARK GAYLORD J) 22 April 1969 (1969-04-22) the whole document	1-7

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
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Date of the actual completion of the International search 18 June 2003	Date of mailing of the international search report 26/06/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Gavaza, B.





		PC1/11 03/00053						
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT								
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.						
A	PATENT ABSTRACTS OF JAPAN vol. 0092, no. 86 (M-429), 13 November 1985 (1985-11-13) & JP 60 128050 A (WAI KEI GIKEN:KK), 8 July 1985 (1985-07-08) abstract; figures	1-7						
A	abstract; figures DE 199 07 441 A (VORBACH HARALD) 31 August 2000 (2000-08-31) abstract; figures	1-7						
		-						

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte nal Application No PCT/IT 03/00053

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 3139641	Α	07-07-1964	NONE			
DE 20114359	U	24-01-2002	DE WO	20114359 03018375		24-01-2002 06-03-2003
US 3241172	Α	22-03-1966	NONE			
US 3439373	A	22-04-1969	NONE			
JP 60128050	Α	08-07-1985	JP JP	1052222 1566468	_	08-11-1989 25-06-1990
DE 19907441	Α	31-08-2000	DE	19907441	A1	31-08-2000